Measurements Recorded on Dated.

Name of Work:	Construction of CC roads and other works at Chikkasandra colony in Ward No.12, Shettyhalli Sub Division, Ward No.12-Shettyhalli
Estimated Cost	99.00 Lakhs
Head of Account	P3727
Job Code No	012-20-000010
A.S No. & Date	EE/DD/AS/170/19-20 Dated.16/11/2019
T.S No. & Date	CE/DZ/TS/61/19-20 Dated.16/11/2019
W.O No. & Date	EE/DD/WO/ /19-20 Dated.18/01/2020
Name of Agency	KRIDL

1st and Part Bill

Sl. No.	Description of work	Chainage			Measurements						Qty	Unit/ Remarks
		From	-	To	No.s	Length	b1	b2	Avg. Breadth	Depth		
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20											
	Perimeter=0.60+.60+0.60=1.80, 0.45+0.45+0.60=1.50											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	1	25.00	-	-	1.50	0.15	5.62	
		25.00	-	31.00	-	-	-	-	-	-	-	-	Cross Road
		31.00	-	61.00	1	1	30.00	-	-	1.50	0.15	6.75	
		61.00	-	85.00	1	1	24.00	-	-	1.50	0.15	5.40	
		85.00	-	93.50	-	-	-	-	-	-	-	-	Cross Road
		93.50	-	120.00	1	1	26.50	-	-	1.50	0.15	5.96	
		120.00	-	125.40	-	-	-	-	-	-	-	-	Cross Road
		125.40	-	155.40	1	1	30.00	-	-	1.80	0.15	8.10	
		155.40	-	172.00	1	1	16.60	-	-	1.80	0.15	4.48	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	1	26.00	-	-	2.10	0.15	8.19	
		26.00	-	33.70	1	1	7.70	-	-	1.80	0.15	2.07	
		33.70	-	63.70	1	1	30.00	-	-	1.80	0.15	8.10	
		63.70	-	68.70	1	1	5.00	-	-	1.80	0.15	1.35	
		68.70	-	87.70	-	-	-	-	-	-	-	-	No Drain
		87.70	-	92.70	-	-	-	-	-	-	-	-	Cross Road
		92.70	-	111.70	1	1	19.00	-	-	1.50	0.15	4.27	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	1	30.00	-	-	1.50	0.15	6.75	
		93.70	-	111.70	1	1	18.00	-	-	1.50	0.15	4.05	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	1	30.00	-	-	1.80	0.15	8.10	
		30.00	-	60.00	1	1	30.00	-	-	1.80	0.15	8.10	
		60.00	-	80.70	1	1	20.70	-	-	1.80	0.15	5.58	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	1.20	-	-	-	-	-	-	-	-	No Drain
		1.20		31.20	1	1	30.00	-	-	1.80	0.15	8.10	
		31.20		61.20	1	1	30.00	-	-	1.80	0.15	8.10	
		61.20		80.70	1	1	19.50	-	-	1.80	0.15	5.26	
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	30.00	1	1	30.00	-	-	1.80	0.15	8.10	
		30.00	-	60.00	1	1	30.00	-	-	1.80	0.15	8.10	
		60.00	-	85.00	1	1	25.00	-	-	1.80	0.15	6.75	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	30.00	1	1	30.00	-	-	1.80	0.15	8.10	

Sl. No.	Description of work	Chainage			Measurements							Qty	Unit/ Remarks
		From	-	To	No.s		Length	b1	b2	Avg. Breadth	Depth		
		30.00	-	60.00	1	1	30.00	-	-	1.80	0.15	8.10	
		60.00	-	85.00	1	1	25.00	-	-	1.80	0.15	6.75	
											Total Qty/ Payable Qty	160.23	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Measurement Continued

2	Removing B.S.slab of drain and stacking.												
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	1	25.00	-	-	1.35		33.75	
		35.00	-	61.00	1	1	26.00	-	-	1.35		35.10	
		61.00	-	85.00	1	1	24.00	-	-	1.35		32.40	
		93.50	-	120.00	1	1	26.50	-	-	1.35		35.77	
		155.40	-	172.00	1	1	16.60	-	-	1.35		22.41	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	1	26.00	-	-	1.50		39.00	
		26.00	-	33.70	1	1	7.70	-	-	1.35		10.39	
		63.70	-	68.70	1	1	5.00	-	-	1.35		6.75	
		92.70	-	111.70	1	1	19.00	-	-	1.35		25.65	
	5th Cross From W0762 to W0756-L/s	63.70	-	93.70	1	1	30.00	-	-	1.35		40.50	
		93.70	-	111.70	1	1	18.00	-	-	1.35		24.30	
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	30.00	1	1	30.00	-	-	1.35		40.50	
		60.00	-	80.70	1	1	20.70	-	-	1.35		27.94	
	Cross road (W0760) From 5th Cross to W0756- R/s	31.20		61.20	1	1	30.00	-	-	1.35		40.50	
		61.20		80.70	1	1	19.50	-	-	1.35		26.32	
	5th Cross (W0917) From W0762 to Deadend-L/s	8.50	-	25.00	1	1	16.50	-	-	1.35		22.27	
		60.00	-	85.00	1	1	25.00	-	-	1.35		33.75	
	5th Cross (W0917) From W0762 to Deadend-R/s	60.00	-	85.00	1	1	25.00	-	-	1.35		33.75	
											Total Qty. / Payable Qty	531.05	Sqm

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಕ್ಕೂರು, ಬೆಂಗಳೂರು

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Measurement Continued

3	Excavation by manual means for roads,drains & similar works in ordinaryy soil excavated surface levelled and sides neatly dressed the disposedearth to be levelled neatly after breaking of clods complete as per specifications.												
	E.W.E for CC Drain												
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00	-	25.00	1	1	25.00	-	-	1.20	0.90	27.00	
		25.00	-	31.00	-	-	-	-	-	-	-	-	Cross Road
		31.00	-	61.00	1	1	30.00	-	-	1.20	0.90	32.40	
		61.00	-	85.00	1	1	24.00	-	-	1.20	0.90	25.92	
		85.00	-	93.50	-	-	-	-	-	-	-	-	Cross Road
		93.50	-	120.00	1	1	26.50	-	-	1.20	0.95	30.21	
		120.00	-	125.40	-	-	-	-	-	-	-	-	Cross Road
		125.40	-	155.40	1	1	30.00	-	-	1.20	0.85	30.60	
		155.40	-	172.00	1	1	16.60	-	-	1.20	0.90	17.92	
	5th Cross From W0762 to W0756-R/s	0.00	-	26.00	1	1	26.00	-	-	1.50	1.00	39.00	
		26.00	-	33.70	1	1	7.70	-	-	1.20	0.90	8.31	
		33.70	-	63.70	1	1	30.00	-	-	1.20	0.90	32.40	

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ಜಕ್ಕೂರು, ಬೆಂಗಳೂರು

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s		Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
		20.10	-	29.90	1	1	9.80	4.80	4.90	4.85		47.53	
	5th Cross From W0762 to W0756	0.00	-	26.00	1	1	26.00	9.00	5.30	7.15		185.90	
		26.00	-	33.70	1	1	7.70	8.50	7.40	7.95		61.21	
		33.70	-	63.70	1	1	30.00	7.40	4.90	6.15		184.50	
		63.70	-	93.70	1	1	30.00	4.90	4.50	4.70		141.00	
		93.70	-	112.00	1	1	18.30	4.50	5.40	4.95		90.58	
	Cross road (W0760) From 5th Cross to W0756	0.00	-	30.00	1	1	30.00	3.10	3.70	3.40		102.00	
		30.00	-	60.00	1	1	30.00	3.70	3.80	3.75		112.50	
		60.00	-	82.00	1	1	22.00	3.80	3.70	3.75		82.50	
	Cross road (Curve Road) from W0760 to 5th Cross	0.00	-	17.20	1	1	17.20	8.50	4.70	6.60		115.32	
		17.20	-	43.20	1	1	26.00	4.70	5.60	5.15		133.90	
		43.20	-	73.20	1	1	30.00	5.60	4.80	5.20		156.00	
		73.20	-	85.40	1	1	12.20	4.80	5.50	5.15		62.83	
		85.40	-	90.40	1	1	5.00	7.60	7.50	7.55		37.75	
											Total Qty	2356.33	Sqm
											Qty. Ltd. to / Payable Qty	1941.20	Sqm

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

12	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per												
	WMM for CC road												
	6th Cross (W0762) From 1st Cross to 5th Cross	0.00	-	30.00	1	1	30.00	5.00	3.50	4.25	0.10	12.75	
		30.00	-	60.00	1	1	30.00	3.50	4.00	3.75	0.10	11.25	
		60.00	-	90.00	1	1	30.00	4.00	3.50	3.75	0.10	11.25	
		90.00	-	120.00	1	1	30.00	3.50	4.40	3.95	0.10	11.85	
		120.00	-	150.00	1	1	30.00	4.40	2.80	3.60	0.10	10.80	
		150.00	-	178.10	1	1	28.10	2.80	4.30	3.55	0.10	9.97	
		178.10	-	185.60	1	1	7.50	6.00	4.30	5.15	0.10	3.86	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1	1	8.90	7.60	6.90	7.25	0.10	6.45	
		8.90	-	20.10	1	1	11.20	6.90	4.30	5.60	0.10	6.27	
		20.10	-	29.90	1	1	9.80	4.80	4.90	4.85	0.10	4.75	
	5th Cross From W0762 to W0756	0.00	-	26.00	1	1	26.00	9.00	5.30	7.15	0.10	18.59	
		26.00	-	33.70	1	1	7.70	8.50	7.40	7.95	0.10	6.12	
		33.70	-	63.70	1	1	30.00	7.40	4.90	6.15	0.10	18.45	
		63.70	-	93.70	1	1	30.00	4.90	4.50	4.70	0.10	14.10	
		93.70	-	112.00	1	1	18.30	4.50	5.40	4.95	0.10	9.05	
	Cross road (W0760) From 5th Cross to W0756	0.00	-	30.00	1	1	30.00	3.10	3.70	3.40	0.10	10.20	
		30.00	-	60.00	1	1	30.00	3.70	3.80	3.75	0.10	11.25	
		60.00	-	82.00	1	1	22.00	3.80	3.70	3.75	0.10	8.25	
	Cross road (Curve Road) from W0760 to 5th Cross	0.00	-	17.20	1	1	17.20	8.50	4.70	6.60	0.10	11.35	
		17.20	-	43.20	1	1	26.00	4.70	5.60	5.15	0.10	13.39	
		43.20	-	73.20	1	1	30.00	5.60	4.80	5.20	0.10	15.60	
		73.20	-	85.40	1	1	12.20	4.80	5.50	5.15	0.10	6.28	
		85.40	-	90.40	1	1	5.00	7.60	7.50	7.55	0.10	3.77	
											Total Qty	235.60	Cum

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
										Qty. Ltd. to / Payable Qty	194.12	Cum

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

11	Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.											
	6th Cross (W0762) From 1st Cross to 5th Cross	0.00 - 30.00	1	1	30.00	5.00	3.50	4.25	0.10	12.75		
		30.00 - 60.00	1	1	30.00	3.50	4.00	3.75	0.10	11.25		
		60.00 - 90.00	1	1	30.00	4.00	3.50	3.75	0.10	11.25		
		90.00 - 120.00	1	1	30.00	3.50	4.40	3.95	0.10	11.85		
		120.00 - 150.00	1	1	30.00	4.40	2.80	3.60	0.10	10.80		
		150.00 - 178.10	1	1	28.10	2.80	4.30	3.55	0.10	9.97		
		178.10 - 185.60	1	1	7.50	6.00	4.30	5.15	0.10	3.86		
	6th cross (W0762) From 5th Cross to Deadend	0.00 - 8.90	1	1	8.90	7.60	6.90	7.25	0.10	6.45		
		8.90 - 20.10	1	1	11.20	6.90	4.30	5.60	0.10	6.27		
		20.10 - 29.90	1	1	9.80	4.80	4.90	4.85	0.10	4.75		
	5th Cross From W0762 to W0756	0.00 - 26.00	1	1	26.00	9.00	5.30	7.15	0.10	18.59		
		26.00 - 33.70	1	1	7.70	8.50	7.40	7.95	0.10	6.12		
		33.70 - 63.70	1	1	30.00	7.40	4.90	6.15	0.10	18.45		
		63.70 - 93.70	1	1	30.00	4.90	4.50	4.70	0.10	14.10		
		93.70 - 112.00	1	1	18.30	4.50	5.40	4.95	0.10	9.05		
	Cross road (W0760) From 5th Cross to W0756	0.00 - 30.00	1	1	30.00	3.10	3.70	3.40	0.10	10.20		
		30.00 - 60.00	1	1	30.00	3.70	3.80	3.75	0.10	11.25		
		60.00 - 82.00	1	1	22.00	3.80	3.70	3.75	0.10	8.25		
	Cross road (Curve Road) from W0760 to 5th Cross	0.00 - 17.20	1	1	17.20	8.50	4.70	6.60	0.10	11.35		
		17.20 - 43.20	1	1	26.00	4.70	5.60	5.15	0.10	13.39		
		43.20 - 73.20	1	1	30.00	5.60	4.80	5.20	0.10	15.60		
		73.20 - 85.40	1	1	12.20	4.80	5.50	5.15	0.10	6.28		
		85.40 - 90.40	1	1	5.00	7.60	7.50	7.55	0.10	3.77		
										Total Qty	235.60	Cum
										Qty. Ltd. to / Payable Qty	194.12	Cum

E.E. (D.D.)

E.E. (D.D.)

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.											
	6th Cross (W0762) From 1st Cross to 5th Cross	0.00	-	30.00	1	1	30.00	5.00	3.50	4.25	0.15	19.12	
		30.00	-	60.00	1	1	30.00	3.50	4.00	3.75	0.15	16.87	
		60.00	-	90.00	1	1	30.00	4.00	3.50	3.75	0.15	16.87	
		90.00	-	120.00	1	1	30.00	3.50	4.40	3.95	0.15	17.77	
		120.00	-	150.00	1	1	30.00	4.40	2.80	3.60	0.15	16.20	
		150.00	-	178.10	1	1	28.10	2.80	4.30	3.55	0.15	14.96	
		178.10	-	185.60	1	1	7.50	6.00	4.30	5.15	0.15	5.79	
	6th cross (W0762) From 5th Cross to Deadend	0.00	-	8.90	1	1	8.90	7.60	6.90	7.25	0.125	8.06	
		8.90	-	20.10	1	1	11.20	6.90	4.30	5.60	0.125	7.84	
		20.10	-	29.90	1	1	9.80	4.80	4.90	4.85	0.125	5.94	
	5th Cross From W0762 to W0756	0.00	-	26.00	1	1	26.00	9.00	5.30	7.15	0.125	23.23	
		26.00	-	33.70	1	1	7.70	8.50	7.40	7.95	0.125	7.65	
		33.70	-	63.70	1	1	30.00	7.40	4.90	6.15	0.125	23.06	
		63.70	-	93.70	1	1	30.00	4.90	4.50	4.70	0.125	17.62	
		93.70	-	112.00	1	1	18.30	4.50	5.40	4.95	0.125	11.32	
	Cross road (W0760) From 5th Cross to W0756	0.00	-	30.00	1	1	30.00	3.10	3.70	3.40	0.125	12.75	
		30.00	-	60.00	1	1	30.00	3.70	3.80	3.75	0.125	14.06	
		60.00	-	82.00	1	1	22.00	3.80	3.70	3.75	0.125	10.31	
	Cross road (Curve Road) from W0760 to 5th Cross	0.00	-	17.20	1	1	17.20	8.50	4.70	6.60	0.125	14.19	
		17.20	-	43.20	1	1	26.00	4.70	5.60	5.15	0.125	16.73	
		43.20	-	73.20	1	1	30.00	5.60	4.80	5.20	0.125	19.50	
		73.20	-	85.40	1	1	12.20	4.80	5.50	5.15	0.125	7.85	
		85.40	-	90.40	1	1	5.00	7.60	7.50	7.55	0.125	4.71	
	Gully road	0.00	-	2.90	1	1	2.90	1.80	-	1.80	0.10	0.52	
		2.90	-	9.00	1	1	6.10	1.00	-	1.00	0.10	0.61	
											Total Qty	313.53	Cum
											Qty. Ltd. to / Payable Qty	310.59	Cum

E.E. (D.D.)

Executed on 16/6/21 ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

17/6/21

E.E. (D.D.) 16/6/21

Executed on 16/6/21

Assistant Engineer
Ward 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP

14	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.									
	Kerbs									
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s	0.00 - 172.00	310	152.10	-	-	-	-	310	
	6th cross (W0762) From 5th Cross to Deadend-L/s	0.00 - 7.00	15	7.00	-	-	-	-	15	
	5th Cross From W0762 to W0756-R/s	0.00 - 111.70	185	87.70	-	-	-	-	185	
	5th Cross From W0762 to W0756-L/s	63.70 - 111.70	101	48.00	-	-	-	-	101	

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
	Cross road (W0760) From 5th Cross to W0756- L/s	0.00	-	80.70	170	80.70	-	-	-	-	170	
	Cross road (W0760) From 5th Cross to W0756- R/s	0.00	-	80.70	167	79.50	-	-	-	-	167	No Drain
	5th Cross (W0917) From W0762 to Deadend-L/s	0.00	-	85.00	179	85.00	-	-	-	-	179	
	5th Cross (W0917) From W0762 to Deadend-R/s	0.00	-	85.00	179	85.00	-	-	-	-	179	
	4th Cross (W0915) From W0762 to Deadend-L/s	0.00	-	78.00	164	78.00	-	-	-	-	164	
	4th Cross (W0915) From W0762 to Deadend-R/s	0.00	-	78.00	164	78.00	-	-	-	-	164	
										Total Qty.	1634	Nos
										Qty. Ltd. to / Payable Qty	1591	Nos
15	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications											
	Total No. of Kerbs Vide Item No.15			-	1634	0.45	-	-	0.35		257.35	
										Total Qty.	257.35	Sqm
										Qty. Ltd. to / Payable Qty	250.60	Sqm

Assistant Engineer
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16	Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications												
	Same as Qty. Vide Item No.3	-	-	-	-	-	-	-	-	-	-	728.21	
											Total Payable Qty. in this Bill	728.21	Cum
17	Loading and Unloading of Stone Boulder / Stone aggregate / Sand Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.												
	Same as Qty. Vide Item No.1	-	-	-	-	-	-	-	-	-	-	160.23	
	Same as Qty. Vide Item No.8	-	-	-	-	-	-	-	-	-	-	194.12	
	Same as Qty. Vide Item No.9	-	-	-	-	-	-	-	2356.33		0.150	353.44	
											Total Qty.	707.79	Cum
											Qty Ltd. To /Total Payable Qty. in this Bill	646.40	Cum
18	Cost of haulage Excluding Loading and Unloading MORTH-100/Chapter 1 case-I surface road												
	Same as Qty. Vide Item No.16	-	-	-	-	-	-	-	-	-	-	728.21	
	Same as Qty. Vide Item No.17	-	-	-	-	-	-	-	-	-	-	646.40	
											Total Payable Qty. in this Bill	1374.61	Cum

Assistant Engineer
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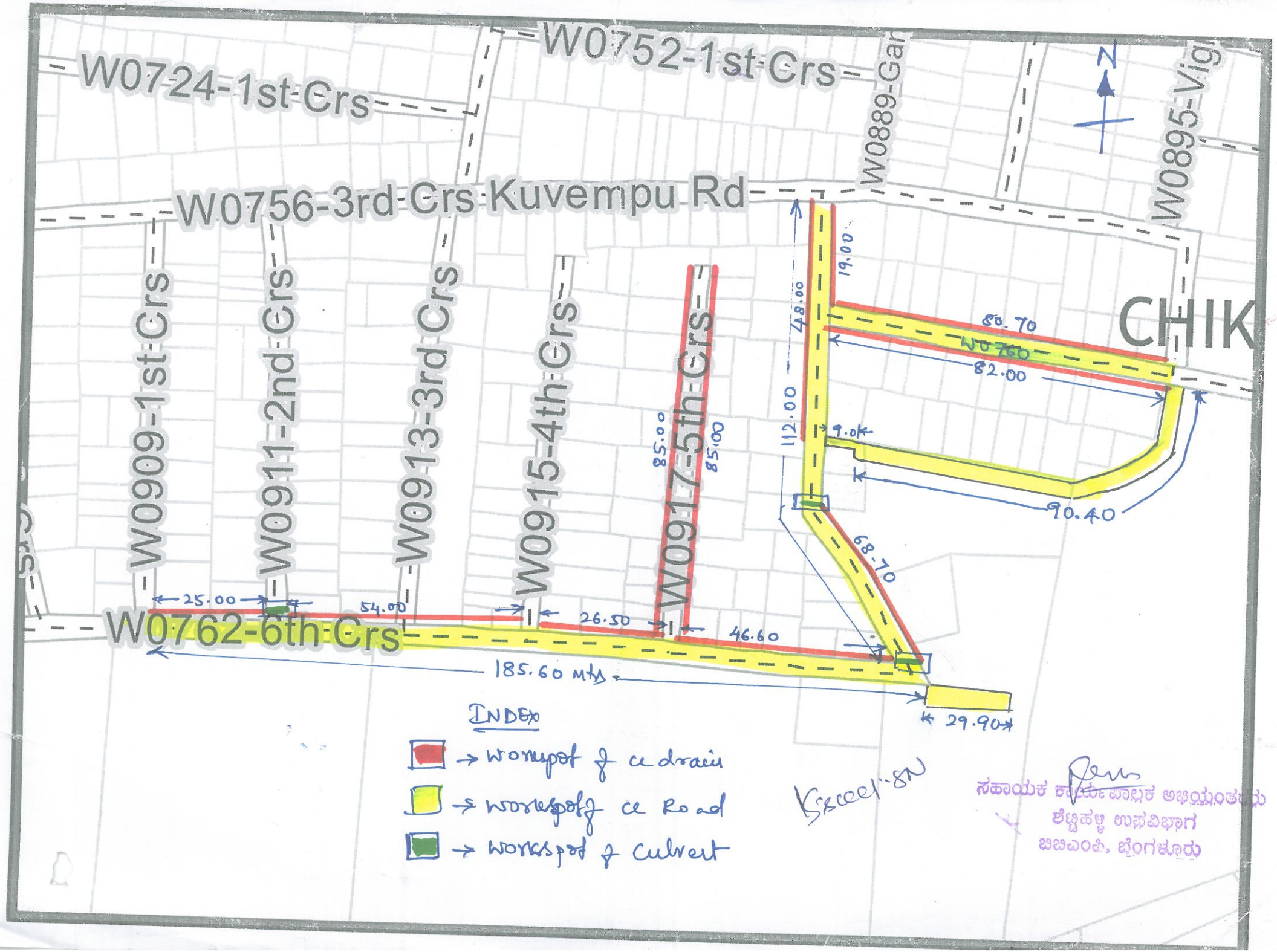
19	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.												
	a) 40mm Jelly.	-	-	-	-	-	-	-	-	-	-		
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4				0.40	1.11	
											Total Qty / Payable Qty	1.11	Cum
	b) 20mm Jelly.												
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4				0.40	1.11	
											Total Qty / Payable Qty	1.11	Cum
	c) Coarse sand.												
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4				0.30	0.83	
											Total Qty / Payable Qty	0.83	Cum
	d) Fine Sand												
	for RWH	-	-	-	1	9	(3.142X0.63X0.63)/4				0.20	0.55	

Sl. No.	Description of work	Chainage From	-	To	Measurements No.s	Length	b1	b2	Avg. Breadth	Depth	Qty	Unit/ Remarks
6	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500											
					No.of bars	Length of Bar				Unit Weight	Total Kgs	
	10mm Dia Main bars											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s				167	2.10	-	-	@	0.62	217.43	
					360	2.10	-	-	@	0.62	468.72	
					177	2.10	-	-	@	0.62	230.45	
					311	2.10	-	-	@	0.62	404.92	
	5th Cross From W0762 to W0756-R/s				173	3.00	-	-	@	0.62	321.78	
					285	2.10	-	-	@	0.62	371.07	
					127	2.10	-	-	@	0.62	165.35	
	5th Cross From W0762 to W0756-L/s				320	2.10	-	-	@	0.62	416.64	
	Cross road (W0760) From 5th Cross to W0756- L/s				538	2.10	-	-	@	0.62	700.47	
	Cross road (W0760) From 5th Cross to W0756- R/s				530	2.10	-	-	@	0.62	690.06	
	5th Cross (W0917) From W0762 to Deadend-L/s				567	2.10	-	-	@	0.62	738.23	
	5th Cross (W0917) From W0762 to Deadend-R/s				567	2.10	-	-	@	0.62	738.23	
	10mm Dia Distribution bars											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s				14	25.00	-	-	@	0.62	217.00	
					14	54.00	-	-	@	0.62	468.72	
					14	26.50	-	-	@	0.62	230.02	
					14	46.60	-	-	@	0.62	404.48	
	5th Cross From W0762 to W0756-R/s				20	26.00	-	-	@	0.62	322.40	
					14	42.70	-	-	@	0.62	370.63	
					14	19.00	-	-	@	0.62	164.92	
	5th Cross From W0762 to W0756-L/s				14	48.00	-	-	@	0.62	416.64	
	Cross road (W0760) From 5th Cross to W0756- L/s				14	80.70	-	-	@	0.62	700.47	
	Cross road (W0760) From 5th Cross to W0756- R/s				14	79.50	-	-	@	0.62	690.06	
	5th Cross (W0917) From W0762 to Deadend-L/s				14	85.00	-	-	@	0.62	737.80	
	5th Cross (W0917) From W0762 to Deadend-R/s				14	85.00	-	-	@	0.62	737.80	
	For Culvert											
	12mm dia U shape bars (Double Layer)											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s				120	4.80	-	-	@	0.89	512.64	
	7th Cross (W0762) From 1st Cross to 5th Cross-L/s				178	6.00	-	-	@	0.89	950.52	
	8th Cross (W0762) From 1st Cross to 5th Cross-L/s				112	4.80	-	-	@	0.89	478.46	
	10mm dia Distribution bars (Double Layer)											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s				32	6.00	-	-	@	0.62	119.04	
	7th Cross (W0762) From 1st Cross to 5th Cross-L/s				40	8.90	-	-	@	0.62	220.72	
	8th Cross (W0762) From 1st Cross to 5th Cross-L/s				32	5.60	-	-	@	0.62	111.10	
	For Culvert-Deck Slab											
	6th Cross (W0762) From 1st Cross to 5th Cross-L/s						-	-				
	16mm dia Cranked Bars				21	1.45	-	-	@	1.58	48.11	
	16mm dia Un Cranked Bars				20	1.15	-	-	@	1.58	36.34	
	10mm dia Distribution bars (Top & Bottom)				16	6.00	-	-	@	0.62	59.52	
	7th Cross (W0762) From 1st Cross to 5th Cross-L/s						-	-			0.00	

Sl. No.	Description of work	Chainage			Measurements						Qty	Unit/ Remarks
		From	-	To	No.s	Length	b1	b2	Avg. Breadth	Depth		
	16mm dia Cranked Bars				31	1.45	-	-	@	1.58	71.02	
	16mm dia Un Cranked Bars				30	1.15	-	-	@	1.58	54.51	
	10mm dia Distribution bars (Top & Bottom)				20	6.00	-	-	@	0.62	74.40	
	8th Cross (W0762) From 1st Cross to 5th Cross-L/s						-	-			0.00	
	16mm dia Cranked Bars				20	1.45	-	-	@	1.58	45.82	
	16mm dia Un Cranked Bars				19	1.15	-	-	@	1.58	34.52	
	10mm dia Distribution bars (Top & Bottom)				16	5.60	-	-	@	0.62	55.55	
										Total Qty	**13796.56**	**Kgs**
										Converting Kgs into Tonnes		
										Total Qty	**13.79**	**Tonnes**
										Qty Ltd. to / Payable Qty	**13.53**	**Tonnes**

Assistant Engineer
Ward 12

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Shettyhalli Sub Division, BBMP



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು